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(54) MANUFACTURE OF FUEL ELECTRODE CATALYSER FOR LIQUID FUEL CELL

(57)Abstract:

PURPOSE: To improve electrode performance and simplify manufacturing process by causing platinum-ruthenium catalyser, obtained from chloroplatinic acid or ruthenium chloride through reaction with sodium hydrogen sulfite as a reducing agent and hydrogen peroxide as a cohesion preventing agent, to be carried on carbon particles.

CONSTITUTION: Chloroplatinic acid and sodium sulfite are mixed into an aqueous solvent to form a dispersion liquid of particles containing platinum, then, after pH is adjusted, an aqueous solution of hydrogen peroxide is added thereto. Further, a suspension of highly dispersed fine powder of carbon is added to a colloidal dispersion liquid of platinum and ruthenium obtained by gradually adding an aqueous solution of ruthenium chloride under occurrence of hydrogen peroxide, and then filtration, washing, and drying are effected. Thus, platinum-ruthenium catalyser can be carried on the carbon particles in a highly dispersed state, so that a fuel electrode with high performance can be obtained and manufacturing process can be simplified.

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